Exercise   1   *A national park records data regarding the total fox population F over a 12 month period, where $t = 0$ means January 1, $t = 1$ means February 1, and so on. Below is the table of values they recorded:*

t, month	F, foxes
0	150
1	143
2	125
3	100
4	75
5	57
6	50
7	57
8	75
9	100
10	125
11	143

Is t a function of F?

Multiple Choice:

   (a) *Yes*

   (b) *No* ✓

Is F a function of t?

Multiple Choice:

   (a) *Yes* ✓

   (b) *No*

Exercise   1.1   *(b) Let $g(t) = F$ denote the fox population in month t. How many solution(s) are there to the equation $g(t) = 125$?.*

Multiple Choice:

   (a) *0*

   (b) *1*

   (c) *2* ✓

(d) *3*

(e) *4*

(f) *5*

Exercise   **1.1.1**   *What are the solutions to $g(t) = 125$?*

The smaller solution is $\boxed{2}$ *and the larger solution is* $\boxed{10}$.